|     |  |               |           |   |                         |              |                   |          |                          |               |  |          |          | 09/810,501 |                         |                 |           |   |             |                |  | PAUL ET AL.      |                 |          |          |              |                 |                     |          |   |   |
|-----|--|---------------|-----------|---|-------------------------|--------------|-------------------|----------|--------------------------|---------------|--|----------|----------|------------|-------------------------|-----------------|-----------|---|-------------|----------------|--|------------------|-----------------|----------|----------|--------------|-----------------|---------------------|----------|---|---|
|     |  |               |           |   |                         |              |                   |          |                          |               |  |          | E        | Examiner   |                         |                 |           |   |             |                |  | Art Unit         |                 |          |          |              |                 |                     | _        |   |   |
|     |  |               | ı         |   | Ш                       |              |                   |          |                          |               |  |          |          |            | -                       |                 |           |   |             |                |  |                  |                 |          |          |              |                 |                     |          |   |   |
|     | L BETTH SETTE FINE FINE FOR A STREET STREET STREET STREET STREET |               |           |   |                         |              |                   |          |                          |               |  |          |          | D          | Donna C. Wortman, Ph.D. |                 |           |   |             |                |  |                  | 16              | 48       |          |              |                 |                     |          |   |   |
|     |  |               |           |   |                         |              |                   |          |                          |               |  |          |          |            |                         |                 |           |   |             |                |  |                  |                 |          |          |              |                 |                     |          |   |   |
|     |  |               | T         |   |                         |              | 1                 | Γ        | T                        | <b>(</b> T)   | יייסווי  | ah ni    | ıme      | ral)       | $\neg$                  |                 |           |   |             |                |  |                  |                 | _        |          |              |                 |                     |          |   |   |
|     |  | 1             |           | Rej   | ecte                    | be           | l                 | 1        | (Through numer Cancelled |               |  |          |          | ,          |                         | N Non-Elected A |           |   |             |                | A  | Appeal           |                 |          |          |              |                 |                     |          |   |   |
|     |  | -             | +         |   |                         |              |                   | -        |                          |               |  |          |          |            | $\dashv$                | F               | +         |   |             |                |  | H                |                 | -        |          |              | $\dashv$        |                     |          |   |   |
|     |  | =             |           | Ali   | nwa                     | d            | 1                 | 1        | + Restricted             |               |  |          |          |            |                         | 1               | ۱         | Interference  |             |                |  |                  | Objected        |          |          | ₽ď           |                 |                     |          |   |   |
|     |  |               |           |   |                         |              |                   | Į        |                          |               |  |          |          |            |                         | L               | $\perp$   |   |             |                |  | Ш                | <u></u>         |          |          |              |                 |                     |          |   |   |
|     |  |               | Ξ         |   |                         |              |                   |          |                          | <u> </u>      | 1.   |          |          |            |                         |                 |           |   |             |                |  | т—               | 0-4-            |          |          |              | <del></del> -   |                     |          |   |   |
|     | Cla  | im            | _         |   |                         | <u>Dat</u>   | e                 | _,       |                          | Claim         |  |          | _        | Date       |                         |                 | 1 1       | -15   | Claim       |                | <del>                                     </del> | Date             |                 | e<br>T   |          | Т            | -               |                     |          |   |   |
|     | _  | Original      | 1         | -   |                         | 1            |                   |          |                          | 87            | _  | ब्र      |          | 1          |                         |                 | -         |   |             | =              | Jal  |                  |                 |          | -        |              | - 1             |                     | 1        |   |   |
|     | Final  | Original      | 1         | 1   |                         | 1            |                   | -        |                          | 37            | Final  | Original | 1        | 1          |                         |                 | -         |   | 1           | Final          | Oríginal   |                  |                 |          | .        |              | - 1             |                     | 1        |   |   |
|     | 1 1  | Ŏ by          | 4         |   |                         | 1            |                   |          |                          | 1             | "  | ŏ        | 1        |            |                         |                 |           |   |             | ] ~            | ō  |                  |                 | 1.       | -        |              | . 1             |                     |          |   |   |
|     | $\vdash \dashv$  | (1) A         |           | +   | +                       | 1            | $\vdash \uparrow$ | +        | +                        | - ;           |  | 51       | 十        | $\top$     | П                       | 十               | 寸         | 1   | ٦:          |                | 101  |                  |                 |          | Ι        |              |                 | 工                   | ]        |   |   |
|     | $\vdash$   | 2             | rt        | $\top$  | $\top$                  | T            |                   | _        | 1                        |               |  | 52       | 工        | I          |                         | $\Box$          |           |   | ]           |                | 102  |                  | $\Box$          | I        | $\Box$   | $\Box$       | $\Box$          | ユ                   | 4        |   |   |
|     |  | 3             | ľ         | 丁   | $\mathbf{L}$            | L            | $\Box$            | _        |                          |               |  | 53       | 工        | I          | П                       | $\Box$          | $\bot$    | $\Box$  | _ ~         | <b> </b>       | 103  | П                | $\perp$         | 4        | $\perp$  | $\sqcup$     | $\sqcup$        | 4                   | 4        |   |   |
|     |  | 4             | $\prod$   | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | L                       |              | $\Box$            | $\Box$   | $\perp$                  | 1.1           |  | 54       |          | 1          | Ц                       | 4               | 4         | +   | - <br>      | :              | 104  | $\sqcup$         | $\dashv$        | +        | $\vdash$ | $\vdash$     | $\dashv$        | +                   | 4        |   |   |
|     |  | 5             | Ц         |   | 1                       | $\vdash$     | 1                 | 4        | $\perp$                  | 40            | $\vdash \vdash \mid$                             | 55       | +        | +-         | $\vdash \vdash$         | $\dashv$        | $\dashv$  | ++  | 4           | -              | 105<br>106                                       |                  | $\vdash$        |          | +        | $\vdash$     | $\vdash$        | +                   | -        | • |   |
| •   | ш  | 6             | $\mu$     | +   | +                       | -            | ╀┼                | 4        | +                        | -{∴           | $\vdash \vdash$                                  | 56       | +        | +          | ┦                       | $\dashv$        | +         | +   | 4           | $\vdash$       | 106  |                  | $\vdash$        | +        | +        | $\vdash$     | $\vdash$        | +                   | $\dashv$ |   |   |
| •   | $\vdash \dashv$  | 7             | ${f \mu}$ | +   | ╀                       | ╀            | ╁╌╁               | 4        | +                        | -∤            | ┝┷┥  | 57<br>58 | +        | +          | ⊢┤                      | +               | $\dashv$  | - -   | +           | -              | 108  | ╁┤               | +               | +        | +        | Н            | H               | +                   | ┪        |   |   |
| • . | $\vdash\vdash$   | 8             | H         | +   | +                       | ╂            | ╁┼                | ┥        | +                        | 4.2           | $\vdash$   | 59       | +        | +-         | H                       | -+              | $\dashv$  | +   | -           |                | 109  |                  | $\vdash$        | $\top$   | $\top$   | Н            | $\vdash$        | $\top$              | ┨.       |   |   |
|     | $\vdash$   | 10            | 4         | +   | +                       | 1            | ++                | -1       | +                        | નેંઁ          | $\vdash$   | 60       | +        | +-         | Н                       | -+              | $\dashv$  | -1-1  | †։          |                | 110  |                  |                 | _        | I        | П            |                 | 丁                   | ].       |   |   |
|     | $\vdash$   | 11            | +         | +   | $\top$                  | 1            | 1-1               | 7        | $\dashv$                 | ٦٠)           | Н  | 61       | _        | 丁          |                         | 一               |           |   | ].          |                | 111  |                  |                 |          | $\perp$  |              |                 | $\perp$             |          |   |   |
|     |  | 12            | †         | _   | $\top$                  | 1            |                   |          |                          | <b>]</b>      |  | 62       |          | $oxed{T}$  | П                       | $\Box$          |           | $\Box$  |             |                | 112  |                  | Ц               | $\perp$  | $\perp$  |              | Ш               | $\perp$             | 4        |   |   |
|     |  | 13            | 1         |   |                         | $\Gamma$     |                   |          |                          |               |  | 63       |          | 1          | П                       | $\perp$ I       | $\exists$ | 4   | _[:         | -              | 113  | $\Box$           | $\sqcup$        | $\perp$  | _        | $\vdash$     | Ш               | $\perp$             | 4        |   |   |
|     |  | 14            | I         | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | I                       | Г            | $\Box$            |          | $\perp$                  | ]:            |  | 64       | $\perp$  | 4          | Ц                       |                 | _         | 44  | 43          | :              | 114  |                  | $\vdash \vdash$ | 4        | +        | -            | $\vdash \vdash$ | +                   | -        |   |   |
| ٠.  |  | 15            | Ц         | $\perp$   | $\perp$                 |              | $\prod$           | _        | $\sqcup$                 | _ `           |  | 65       | 4        | +          | $\sqcup$                | _1              |           | +   | $\dashv$    | -              | 115<br>116                                       | $\vdash$         | $\vdash \vdash$ | +        | +        | $\vdash$     | $\vdash \vdash$ |                     | -        |   |   |
|     | <b></b>  | 16            | Н         | +   | - -                     | ╀            | $\sqcup$          |          | $\vdash$                 | <b>-</b>      | <u> </u>   | 66<br>67 | +        | +-         | ↤                       | -+              | +         | ++  | - ։         | -              | 117  | ╁                | $\vdash$        | +        | +        | +            | H               | +                   | $\dashv$ |   |   |
|     | <u> </u>   | 17            | H         | +   | +                       | +-           | 1 1               | -        | ⊢-                       | نول           | $\vdash$   | 68       | +        | +-         | ╁┤                      | $\dashv$        | $\dashv$  | <del>-   </del>   | $\dashv$    | -              | 118  |                  | $\vdash$        | +        | +        | +            | $\vdash$        | +                   | $\dashv$ |   |   |
|     | <b>-</b>   | 18            | ₩         | +   | +                       | +-           | ++                | $\dashv$ | $\vdash$                 | - ``.;        | $\vdash$   | 69       | +        | +          | H                       | $\vdash$        | $\dashv$  | - -   | $\dashv$    | +              | 119  | 1                | $\vdash \vdash$ | 十        | $\top$   | T            | П               | -                   | ┨        |   |   |
|     | <u> </u>   | 20            | ₩         | +   | +                       | +            | +                 | $\dashv$ | $\vdash$                 | ⊣ું           |  | 70       | +        | 十          | 1.1                     | $\dashv$        | 7         | 11  | -           |                | 120  |                  |                 |          | 1        |              |                 |                     |          |   |   |
|     |  | 21            | ₩         | 十   | 十                       | +            | † †               | $\dashv$ | $\vdash$                 |               |  | 71       | _†       | 1          |                         |                 | J         |   | ].          |                | 121  | $\mathbf{I}_{-}$ |                 |          |          |              |                 | $\Box$              | _        |   |   |
|     | $\vdash$   | 22            | #         |   | T                       | T            |                   |          |                          |               |  | 72       | 1        |            | $\square$               |                 |           |   | ]           |                | 122  |                  | П               | $\bot$   | $\perp$  | Į.           | $\sqcup$        |                     | 4        |   |   |
|     |  | 23            | I         | ightharpoons                                      | L                       |              |                   |          |                          |               |  | 73       | $\perp$  |            | $\sqcup$                |                 | $\Box$    | $\dashv$  | _8          | 1              | 123  | -                | $\sqcup$        | _ _      | +        | 1            | $\sqcup$        |                     | $\dashv$ |   |   |
|     |  | 24            | П         | $\perp$   | $\bot$                  |              | $\prod$           | _        | $\Box$                   | <b>-</b> [3.7 |  | 74       | _        | +          | $\sqcup$                | $\vdash \vdash$ |           | $\dashv \downarrow$   | 4           |                | 124<br>125                                       | +                | ⊢┼              | +        | +-       | +            | $\vdash$        | $\dashv$            | ┨.       |   |   |
|     | <u></u>  | 25            | Ш         | 4   | +                       | +            | +                 | -        | $\vdash$                 | 40            | <u> </u>   | 75       | -        | +          | $\vdash$                | $\vdash$        |           | +   |             | <del> </del> — | 125  | +                | ┥┤              | +        | +        | +            | Н               | $\forall$           | $\dashv$ |   |   |
|     | <b>—</b>   | 26            | H         | +   | +                       | +            | +-+               | 4        | $\vdash +$               | -(::)         | <del> </del>                                     | 76<br>77 | +        | +-         | $\vdash$                | $\vdash$        | $\dashv$  |   | <b>-</b> €  |                | 127  |                  | $\vdash$        | +        | +-       | T            | $\vdash$        | $\vdash$            | 1        |   |   |
|     | <b>—</b>   | 27<br>28      | H         | 十   | +                       | +-           | + +               | -        | $\vdash \vdash$          | - ∵           | -  | 78       | +        | +          | H                       | H               | -         | +   | ٦.          | <b>/</b>       | 128  |                  | $\Box$          | +        | 1        | 1            |                 | $\Box$              |          |   |   |
|     | -  | 29 1          | H         | $\dashv$  | +                       | +            | + +               | $\dashv$ | -                        | <b>⊣</b> ∷    | <b> </b>   | 79       | -+       | +          | Н                       |                 | -         | 11  | <b>-</b> 1: |                | 129  |                  |                 |          | I        |              |                 |                     |          |   |   |
|     | $\vdash$   | 303           | d         | $\dashv$  | +                       | T            | † †               | _        | $\sqcap$                 | ٠             |  | 80       | _        |            | П                       |                 |           |   |             |                | 130  |                  |                 |          | $\perp$  |              |                 |                     | _        |   |   |
|     |  | (30) (<br>31) | オ         | 1   | $\top$                  | $\top$       | 11                |          | $\Box$                   |               |  | 81       | $\Box$   | floor      | $\square$               |                 |           |   |             |                | 131  |                  | П               |          |          | $\perp$      | $\sqcup$        | Ц                   | 4        |   |   |
|     |  | 32 /<br>33    | V         |   |                         | $\perp$      |                   |          |                          |               |  | 82       | $\Box$   | $\Box$     | $\Box$                  | П               |           | $-\!$ | ]           | _              | 132  | 4_               | Н               | _        | +        | ╄            | <b> </b>        | Н                   |          |   |   |
|     |  | 33            | П         | $\Box$  | $oldsymbol{\mathbb{T}}$ | $oxed{\Box}$ |                   |          |                          |               |  | 83       | $\perp$  | 1          | $\sqcup$                | Ш               | Ш         | $\dashv$  | _           | _              | 133  |                  | $\vdash \vdash$ | -        | +        | +            | -               | $\vdash \downarrow$ | $\dashv$ |   |   |
|     |  | 34            | Ц         | $\perp$   | $\perp$                 | $\perp$      | 1-1               | _]       |                          | 40            | ·  | 84       | $\dashv$ | - -        | $\vdash$                | $\vdash \vdash$ | $\vdash$  | +   | -43         |                | 134  |                  | ┥┥              | +        | +        | +            | ╀               | $\vdash$            | $\dashv$ |   |   |
|     | $\vdash$   | 35            | Ц         | 4   | +                       | +            | +                 |          | igoplus                  | 4.            | . <del> </del>                                   | 85       | +        | +          | ╄┥                      | ┉               |           | <del>  </del>   | 4           | :-             | 135<br>136                                       |                  | $\vdash$        | +        | +        | ╁            | $\vdash$        | $\vdash$            | $\dashv$ |   | • |
|     | $\vdash$   | 36            | Н         | $\dashv$  | - -                     | +            | ╁╌┼               |          | $\vdash$                 | $\dashv$ .    | <u> </u>   | 86<br>87 | +        |            | $\vdash$                | Н               | $\vdash$  |   | -           | -              | 137  |                  | ╁               | +        | +        | +            | 1               | $\vdash \vdash$     | ┦ .      |   |   |
|     | -  | 37<br>38 √    | H         | $\dashv$  | +                       | +            | ╫                 | _        | ╁                        | $\dashv$      | $\vdash$   | 88       | $\dashv$ |            | Н                       | Н               | $\vdash$  |   | $\dashv$    | -              | 138  |                  | Н               | +        | +        | $\top$       | Τ               | $\sqcap$            | 7        |   |   |
|     | $\vdash$   | 39/           |           | +   | +                       | +            | ╫                 |          | ╁                        | ┥.            | 1  | 89       | $\dashv$ | +          | +                       | H               | Н         | -1-1  | 7           |                | 139  |                  | $T^{\dagger}$   | $\top$   | 1        | T            |                 |                     |          |   |   |
|     | $\vdash$   |               | V         | +   | +                       | +            | 1-1               |          | $\vdash \vdash$          | 7:            | <del>                                     </del> | 90       | -        | +          | Т                       |                 | Н         |   | ]           |                | 140  |                  |                 |          |          |              |                 | П                   |          |   |   |
|     |  |               | j         |   | ┪                       | 1            | 11                | _        | П                        | 7             |  | 91       |          |            | L                       |                 |           |   | $\Box$      |                | 141  |                  | $\Box$          | $\perp$  | $\bot$   |              |                 | Ц                   | _        |   |   |
|     |  | 42            |           |   | 丁                       |              |                   |          |                          |               |  | 92       |          | I          |                         |                 |           |   | Д.          |                | 142  |                  | Ц               | 4        | 4        | +-           | -               | $\sqcup$            | _        |   |   |
|     |  | 43            |           | $\Box$  | $\perp$                 | I            | П                 |          | $\Box$                   |               |  | 93       | $\Box$   |            | $\perp$                 | Ш               | Ц         | $\sqcup \sqcup$   | 4           | 1              | 143  |                  | +               | +        | +        | +            | -               | $\sqcup$            | -1       |   |   |
|     |  | 44            |           | $\Box$  | 工                       | $\perp$      | $\bot$            |          | П                        | 43            | <u> </u>   | 94       | $\sqcup$ | -          | ╀                       | Ш               | Н         | $\dashv$  | 4           | -              | 144  | -                | ╀┩              | +        | +        | +            | $\vdash$        | $\vdash \vdash$     | $\dashv$ |   |   |
|     | -  | 45            | 4         | $\dashv$  | +                       | +            | +                 | _        | $\vdash$                 | -             | <del> </del>                                     | 95<br>96 | $\vdash$ | +          | +                       | $\vdash$        | $\vdash$  | - -   | $\dashv$    | -              | 145  |                  | H               | +        | +        | ╁            | +               | $\vdash$            | $\dashv$ |   |   |
|     | -  | 46            | 4         | $\vdash$  | +                       | +            | ┿                 |          | -                        | - :           | -  | 97       | $\vdash$ |            | +                       | Н               | $\vdash$  | H   | 寸.          | -              | 147  |                  | +               | $\dashv$ | 十        | T            | 1               | H                   | $\dashv$ |   |   |
|     | $\vdash$   | 48            | -         | ┝┼  | +                       | +            | +-1               | _        | Н                        | <b></b>       | <b> </b>   | 98       | -        | +          | +                       | Н               | $\vdash$  | H   | 1           | 1              | 148  |                  | T               | 十        | +        | T            | 1               |                     | ゴ        |   |   |
|     | -  | 49            | ٦         | $\vdash \uparrow$                                 | +                       | +            | +-1               | _        | $\sqcap$                 | <b>-1</b> :   | -  | 99       | $\vdash$ | +          | T                       | Н               |           | $\Box$  | 7           | 1              | 149  | 1                |                 | 丁        | ┰        | $\perp$      | $\Gamma$        |                     |          |   |   |
|     |  | 50            |           | $\vdash \vdash$                                   | $\top$                  | +            | 1-1               | _        | $\sqcap$                 | ٦,            |  | 100      |          | 1          |                         |                 |           |   |             |                | 150  |                  |                 |          | I        | $\mathbf{I}$ |                 |                     |          |   |   |

Application No.

Index of Claims

Applicant(s)